



Bruhat Bengaluru
Mahanagara Palike

BRUHAT BANGALORE MAHANAGAR PALIKE
EXECUTIVE ENGINEER YELAHANKA ZONE PROJECT DIVISION

INSPECTION REPORT

PHOTOS

NAME OF WORK: Drilling of Borewells, Installation of Pump and motors, Providing pipeline and additional motor pumps and necessary accessories to existing borewells in ward no. 06



TRANSHEIGHT CONSULTANTS Pvt.Ltd
205, 10th Cross, 'G' Block
Sahakaranagar, Bangalore-560092
E-mail : transheight.consultant@gmail.com
Ph.No : 080 23629195
URL: www.transheightconsultants.com

Drilling of Borewells, Installation of Pump and motors, Providing pipeline and additional motor pumps and necessary accessories to existing borewells in ward no. 06

1. Salient Features

1	Name of Client:	Bruhat Bangalore MahanagaraPalike
2	Name of Project:	Drilling of Borewells, Installation of Pump and motors, Providing pipeline and additional motor pumps and necessary accessories to existing borewells in ward no. 06
3	Job Code:	006-20-000013
4	Name of the Agency:	Executive Engineer, B.B.M.P, Project Division, Yelahanka Zone, Bangalore
5	Name of Consultant:	Transheight Consultants Pvt. Ltd.
6	Work Order:	
7	Tender Price:	450.00 Lakhs

2. Quality Control System

The Works are being executed as per the Guidelines given in the Agreement, as per the Relevant Indian Standards and under the Skilled Supervision.

3. Progress Status:

Progress Photographs are enclosed.

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Asst. Executive Engineer

Transheight Consultants Pvt Lt.

Project Division
Yelahanka Zone
74/7, Bangalore - 56

Drilling of Borewells, Installation of Pump and motors, Providing pipeline and additional motor pumps and necessary accessories to existing borewells in ward no. 06

To,

The Executive Engineer,

B.B.M.P, Project Division,

Yelahanka Zone, Bangalore

"PMC INSPECTION REPORT"

Dear Sir,

Subject: Regarding Inspection report for the below mentioned work.

Drilling of Bore wells, Installation of Pump and motors, providing pipeline and additional motor pumps and necessary accessories to existing bore wells in ward no. 06





ABSTRACT

Name of work : Drilling of Borewells, Installation of Pump and motors, Providing pipeline and additional motor pumps and necessary accessories to existing borewells in ward no. 06													
SL No	Items grouped under sub-heads and sub-works of the estimate	As per Modified Sch.B				Previous Measurement			Present Measurement			Total Up-to-date	
		Unit	Qty	Rate	Amount	Qty	Rate Rs. P.	Cost	Qty	Rate Rs. P.	Cost	Qty	Cost
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting vanner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability	Each BW	47.00	4228.00	198716.00	47.00	4228.00	198716.00	0	4228.00	0.00	47.00	198716.00

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2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 0 to 50 m	Rmtr	2350.00	389.00	914150.00	2350.00	389.00	0	389.00	0.00	2350.00	914150.00
	Qty Upto 125%											
3	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges	Rmtr	2350.00	496.00	1165600.00	2350.00	496.00	0	496.00	0.00	2350.00	1165600.00



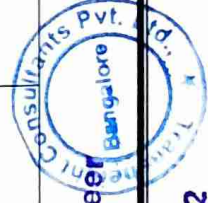
Asst. Executive Engineer

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Yelahanka Zone

4	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 100 to 150 m	Rmtr	2350.00	511.00	1200850.00	2350.00	511.00	0	511.00	0.00	2350.00	1200850.00
	Qty Upto 125%											
5	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges	Rmtr	2350.00	601.00	1412350.00	2350.00	601.00	0	601.00	0.00	2350.00	1412350.00


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6	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 200 to 250 m Qty Upto 125%	Rmtr	2350.00	711.00	1670850.00	2350.00	711.00	0	711.00	0.00	2350.00	1670850.00
7	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of	Rmtr	2350.00	785.00	1844750.00	2350.00	785.00	0	785.00	0.00	2350.00	1844750.00



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8	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) 300 to 350 m	Rmtr	2300.00	250.00	575000.00	2300.00	250.00	0	250.00	0.00	2300.00	575000.00
9	Qty Upto 125% Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of	Rmtr	1364.00	1000.00 0	1364000.00	1364.00	1000.00 0	0	1000.00	0.00	1364.00	1364000.00



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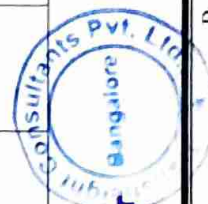
10	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continuous welded middle steel tube material conforming to IS 1387/1993 and manufactured from hot rolled steel skelp/strips in random length of 4 to 7 mtr both ends threaded conforming to IS 554/1985 one end(including of all taxes)	Rmtr	2083.50	1480.00	3083580.00	2083.50	1480.00	0	1480.00	0.00	2083.50	3083580.00
11	Providing and fixing 250mm dia PVC pipe and as per specification and directions.	Rmtr	658.00	1250.00	822500.00	512.50	1250.00	0	1250.00	0.00	512.50	640625.00
	Qty Upto 125%			0								
	Qty Above 125%						146.50	0	1250.00	0.00	146.50	183125.00
12	175 mm dia M.S. Casing cap	Each	47.00	103.00	4841.00	47.00	103.00	0	103.00	0.00	47.00	4841.00
13	M.S. Casing pipe collars 'C' Class	Each	362.00	154.00	55748.00	362.00	154.00	0	154.00	0.00	362.00	55748.00

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14	Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sq cm	Sqm	1034000.00	0.33	341220.00	0.33	1034000.00	0	0.33	0.00	1034000.00	341220.00
15	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m)	Each	2228.00	92.00	204976.00	92.00	2228.00	0	92.00	0.00	2228.00	204976.00



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16	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete....	No	123.00	234.00	28782.00	123.00	234.00	0	234.00	0.00	123.00	28782.00
17	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated sheathed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (conforming to IS 1554)	Mtr	991.00	140.00	138740.00	991.00	140.00	0	140.00	0.00	991.00	138740.00
18	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc., Complete sutting road surfaces	Mtr	933.00	117.00	109161.00	933.00	117.00	0	117.00	0.00	933.00	109161.00
19	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm	Mtr	80.00	294.00	23520.00	80.00	294.00	0	294.00	0.00	80.00	23520.00

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20	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit./ the pit should be filled with equal proportion of salt and charcoal 150 mm around the pipe to complete depth the connections from the pipe to the conduit etc., is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia bolts, nuts washers and checknuts etc., the pipe shall have 16 through holes of 12mm dia	No	41.00	4317.00	176997.00	41.00	4317.00	0	4317.00	0.00	41.00	176997.00
21	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc,	No	41.00	280.00	11480.00	41.00	280.00	0	280.00	0.00	41.00	11480.00


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 Bangalore
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22	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches	No	41.00	302.00	12382.00	41.00	302.00	12382.00	0	302.00	0.00	41.00	12382.00
23	Cleaning of bore well including yield testing of borewell either using slow or fast rig for not more than 2 hours at the final depth with air compressor or suitable pump as per specification (PREL 12-13 SL NO.9.5 PAGE NO.49)	Each	0.00	10128.00	0.00	0.00	10128.00	0.00	0	10128.00	0.00	0.00	0.00
24	Borewell Clamp Set	Set	41.00	1800.00	73800.00	41.00	1800.00	73800.00	0	1800.00	0.00	41.00	73800.00

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26	Supply & delivery at site brand new texmo/innova/lubi/sabar /Atalanta/calamal/waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel caged submercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall form an integral unit with all the required fittings 20 HP 40 Stage	No	0.00	91800.00	0.00	91800.00	0.00	0.00	91800.00	0.00	0.00	0.00
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27	Providing, laying & jointing GI pipes conforming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc., complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe B Class	Rmtr	14284.00	435.00	6213540.00	14284.00	435.00	6213540.00	0	435.00	0.00	14284.00	6213540.00
28	Supply and fixing, Heavy Collar for GI Pipes 50MM Qty Upto 125%	Mtr	2454.00	0.88	2159.52	2454.00	0.88	2159.52	0	0.88	0.00	2454.00	2159.52
29	Supplying of submersible pump cable 1X3X6..0 Sq.mm	No	30664.00	145.00	4446280.00	30664.00	145.00	4446280.00	0	145.00	0.00	30664.00	4446280.00

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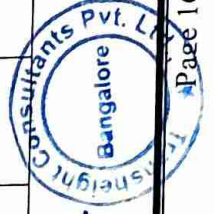
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30	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board	No	41.00	21000.00	861000.00	41.00	21000.00	0	21000.00	0.00	41.00	861000.00
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Asst. Executive Engineer
Project Division
Vidyanagar Zone



31	Supplying & delivery of brand 50mm Gate Valve.	No	41.00	1800.00	73800.00	41.00	1800.00	0	73800.00	0	1800.00	0.00	41.00	73800.00
32	Supplying & delivery of brand 50mm Non Return Valve.	No	41.00	1800.00	73800.00	41.00	1800.00	0	73800.00	0	1800.00	0.00	41.00	73800.00
33	Supplying and fixing MCB	No	41.00	900.00	36900.00	41.00	900.00	0	36900.00	0	900.00	0.00	41.00	36900.00
34	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications Qty Upto 125%	Cum	8640.00	318.00	2747520.00	8622.00	318.00	18.00	2741796.00	0	318.00	5724.00	8640.00	2747520.00

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Bangalore

35	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete	Mtr	19200.00	395.00	7584000.00	19160.00	395.00	7568200.00	40.00	395.00	15800.00	19200.00	7584000.00
36	Qty Upto 125% Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications Qty Upto 125%	Cum	8640.00	129.16	1115942.40	8622.00	129.16	1113617.52	18.00	129.16	2324.88	8640.00	1115942.40
	EIRL Items												



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Vidhana Zone
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E-1	Supply & delivery at site brand new texmo/innova/lubi/sabar /Atalanta/calamal/waterman/Radha make suitable HP deep well submersible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagessubmersible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings For 15HP 35 Stage	Each	1.00	70426.19	70426.19	1.00	70426.19	1.00	70426.19	70426.19
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E-2	Supply & delivery at site brand new texmo/innova/lubi/sabar /Atalanta/calamal/waterman/Radha make suitable HP deep well submersible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagsubmersible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings For 7.5HP 75 Stage	Each	1.00	50860.47	50860.47	50860.47	50860.47	50860.47	1.00	50860.47
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E-3	KSRB13-9.2 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. - do- 40mm dia	Mtr	340.00	288.80	98192.35	340.00	98192.35	
	TOTAL				41780913.93			41782163.93
	GST 12% for AMOUNT						243327.89	3316941.54
	bescom charges		30.00	18568.00			148544.00	705584.00
	NET TOTAL				45383618.23		421071.23	45804689.46

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